

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-27 (canceled)

28. (currently amended) A mixing dome for use in a thermostatic control valve assembly having a hot fluid inlet, a cold fluid inlet, a thermostatically controlled flow control valve combining the hot and cold fluid and a thermostat operably coupled to control the flow control valve in response to the temperature of the fluid mixture, the mixing dome comprising:

a housing having an inner wall defining a mixing chamber in fluid communication with the hot and cold fluid inlets and the thermostat; and

at least one baffle affixed to said inner wall of said housing, said baffle including;

a leading upstream surface portion edge tapered toward said housing;

a trailing downstream surface portion edge wider than said upstream surface portion edge; and

an arcuate edge portion connecting said upstream and downstream surface portions edges.

29. (currently amended) The mixing dome of claim 28 wherein said baffle runs about 210 degrees from said tapered upstream surface portion ~~downstream end~~ to said trailing downstream surface portion ~~upstream edge~~.

30. (previously presented) The mixing dome of claim 28 wherein said baffle has a surface area that is about one-half the cross sectional area of the housing.

31. (previously presented) The mixing dome of claim 28 wherein said baffle has a paisley shape.

32. (previously presented) The mixing dome of claim 28, wherein said at least one baffle includes two baffles sequentially arranged and angularly displaced along a length of said housing.

33. (previously presented) The mixing dome of claim 32, wherein said two baffles are angularly displaced by an angle of about 120 degrees.

34. (previously presented) The mixing dome of claim 32, wherein said at least one baffle includes at least a third baffle sequentially arranged and angularly displaced from each of said two baffles along the length of said housing.